

PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books
Search Nu	cleotide 🔻 fo	r					Go Cle	ar
	1	Limits	Preview/Inde	ex H	istory	Clipboard	De	etails
Display	▼ default	Show: 20	▼ Send to	File	₹	Get Subse	quence	-

## **1:** U12639. GUS gene fusion v...[gi:2088506]

Links

```
PBI101TD
                                     5349 bp
                                                DNA
                                                        linear
                                                                 SYN 01-DEC-2000
LOCUS
            GUS gene fusion vector pBI101 T-DNA region.
DEFINITION
ACCESSION
            U12639
VERSION
            U12639.1 GI:2088506
            pBI101; T-DNA; GUS gene fusion vector; neomycin phosphotransferase;
KEYWORDS
            beta-glucuronidase.
SOURCE
            Cloning vector pBI101
  ORGANISM
            Cloning vector pBI101
            artificial sequences; vectors.
REFERENCE
            1 (sites)
            Jefferson, R.A., Burgess, S.M. and Hirsh, D.
  AUTHORS
            beta-Glucuronidase from Escherichia coli as a gene-fusion marker
  TITLE
  JOURNAL
            Proc. Natl. Acad. Sci. U.S.A. 83 (22), 8447-8451 (1986)
  MEDLINE
            87041472
            3534890
   PUBMED
               (bases 1 to 5349)
REFERENCE
  AUTHORS
            Jefferson, R.A., Kavanagh, T.A. and Bevan, M.W.
            GUS fusions: beta-glucuronidase as a sensitive and versatile gene
  TITLE
            fusion marker in higher plants
            EMBO J. 6 (13), 3901-3907 (1987)
  JOURNAL
  MEDLINE
            88166629
            3327686
   PUBMED
REFERENCE
               (bases 2497 to 2556)
            Jefferson, R.
  AUTHORS
            Assaying chimeric genes in plants: the GUS gene fusion system
  TITLE
            Plant Mol. Biol. Rep. 5, 387-405 (1987)
  JOURNAL
               (bases 1 to 5349)
REFERENCE
  AUTHORS
            Wei, W. and Lindsey, K.
  TITLE
            T-DNA sequence of the GUS gene fusion vector pBI101
  JOURNAL
            Unpublished
               (bases 1 to 5349)
REFERENCE
            5
  AUTHORS
            Wei, W.
  TITLE
            Direct Submission
            Submitted (22-JUL-1994) Wenbin Wei, Botany, University of
  JOURNAL
            Leicester, University Road, Leicester, LE1 7RH, UK
COMMENT
            On May 14, 1997 this sequence version replaced gi:529328.
FEATURES
                     Location/Qualifiers
                     1..5349
     source
                     /organism="Cloning vector pBI101"
                     /db xref="taxon:36566"
                      /note="sequence from the right border to the left border"
     misc feature
                     1..2497
                     /note="pBin19 sequence, containing a neomycin
                     phosphotransferase gene driven by nos promoter"
     repeat unit
                      /note="the right border repeat"
     CDS
                     385..1179
                     /codon_start=1
                     /transl_table=11
                     /product="neomycin phosphotransferase"
                     /protein id="AAC53707.1"
```

2 of 4

```
/db xref="GI:2102680"
                    translation="MIEQDGLHAGSPAAWVERLFGYDWAQQTIGCSDAAVFRLSAQGR/
                    PVLFVKTDLSGALNELQDEAARLSWLATTGVPCAAVLDVVTEAGRDWLLLGEVPGQDL
                    LSSHLAPAEKVSIMADAMRRLHTLDPATCPFDHQAKHRIERARTRMEAGLVDQDDLDE
                    EHQGLAPAELFARLKARMPDGDDLVVTHGDACLPNIMVENGRFSGFIDCGRLGVADRY
                    QDIALATRDIAEELGGEWADRFLVLYGIAAPDSQRIAFYRLLDEFF"
                    2497..2537
    misc feature
                     /note="polylinker"
                    2551..4359
    CDS
                     /note="modified beta-glucuronidase gene coding region from
                    pRAJ260"
                     /codon start=1
                     /transl_table=11
                     /product="beta-glucuronidase"
                     /protein id="AAC53706.1"
                     /db xref="GI:529330"
                     translation="MLRPVETPTREIKKLDGLWAFSLDRENCGIDQRWWESALQESRA/
                     IAVPGSFNDQFADADIRNYAGNVWYQREVFIPKGWAGQRIVLRFDAVTHYGKVWVNNQ
                    EVMEHQGGYTPFEADVTPYVIAGKSVRITVCVNNELNWQTIPPGMVITDENGKKKQSY
                     FHDFFNYAGIHRSVMLYTTPNTWVDDITVVTHVAQDCNHASVDWQVVANGDVSVELRD
                    ADQQVVATGQGTSGTLQVVNPHLWQPGEGYLYELCVTAKSQTECDIYPLRVGIRSVAV
                     KGQQFLINHKPFYFTGFGRHEDADLRGKGFDNVLMVHDHALMDWIGANSYRTSHYPYA
                     EEMLDWADEHGIVVIDETAAVGFNLSLGIGFEAGNKPKELYSEEAVNGETQQAHLQAI
                     KELIARDKNHPSVVMWSIANEPDTRPQVHGNISPLAEATRKLDPTRPITCVNVMFCDA
                     HTDTISDLFDVLCLNRYYGWYVQSGDLETAEKVLEKELLAWQEKLHQPIIITEYGVDT
                     LAGLHSMYTDMWSEEYQCAWLDMYHRVFDRVSAVVGEQVWNFADFATSQGILRVGGNK
                     {\tt KGIFTRDRKPKSAAFLLQKRWTGMNFGEKPQQGGKQ"}
     3'UTR
                     4430..4682
                     /note="3'UTR of the nopaline synthase gene"
     misc feature
                     /note="pBin19 sequence (see also GenBank Accession Number
                     U09365)"
                     5325..5349
     repeat unit
                     /note="the left border repeat"
               1273 a
                                 1417 g
                                         1313 t
BASE COUNT
                        1346 c
ORIGIN
        1 gtttacccgc caatatatcc tgtcaaacac tgatagttta aactgaaggc gggaaacgac
       61 aatctgatca tgagcggaga attaagggag tcacgttatg acccccgccg atgacgcggg
      121 acaagccgtt ttacgtttgg aactgacaga accgcaacgt tgaaggagcc actcagccgc
      181 gggtttctgg agtttaatga gctaagcaca tacgtcagaa accattattg cgcgttcaaa
      241 agtcgcctaa ggtcactatc agctagcaaa tatttcttgt caaaaatgct ccactgacgt
      301 tccataaatt cccctcggta tccaattaga gtctcatatt cactctcaat ccaaataatc
      361 tgcaccggat ctggatcgtt tcgcatgatt gaacaagatg gattgcacgc aggttctccg
      421 gccgcttggg tggagaggct attcggctat gactgggcac aacagacaat cggctgctct
      481 gatgccgccg tgttccggct gtcagcgcag gggcgcccgg ttctttttgt caagaccgac
      541 ctgtccggtg ccctgaatga actgcaggac gaggcagcgc ggctatcgtg gctggccacg
      601 acgggcgttc cttgcgcagc tgtgctcgac gttgtcactg aagcgggaag ggactggctg
      661 ctattgggcg aagtgccggg gcaggatctc ctgtcatctc accttgctcc tgccgagaaa
      721 gtatccatca tggctgatgc aatgcggcgg ctgcatacgc ttgatccggc tacctgccca
      781 ttcgaccacc aagcgaaaca tcgcatcgag cgagcacgta ctcggatgga agccggtctt
      841 gtcgatcagg atgatctgga cgaagagcat caggggctcg cgccagccga actgttcgcc
      901 aggctcaagg cgcgcatgcc cgacggcgat gatctcgtcg tgacccatgg cgatgcctgc
      961 ttgccgaata tcatggtgga aaatggccgc ttttctggat tcatcgactg tggccggctg
     1021 ggtgtggcgg accgctatca ggacatagcg ttggctaccc gtgatattgc tgaagagctt
     1081 ggcggcgaat gggctgaccg cttcctcgtg ctttacggta tcgccgctcc cgattcgcag
     1141 egcategect tetategect tettgaegag ttettetgag egggaetetg gggttegaaa
     1201 tgaccgacca agcgacgccc aacctgccat cacgagattt cgattccacc gccgccttct
     1261 atgaaaggtt gggcttcgga atcgttttcc gggacgccgg ctggatgatc ctccagcgcg
     1321 gggatctcat gctggagttc ttcgcccacg ggatctctgc ggaacaggcg gtcgaaggtg
     1381 ccgatatcat tacgacagca acggccgaca agcacaacgc cacgatcctg agcgacaata
     1441 tgatcgggcc cggcgtccac atcaacggcg tcggcggcga ctgcccaggc aagaccgaga
     1501 tgcaccgcga tatcttgctg cgttcggata ttttcgtgga gttcccgcca cagacccgga
     1561 tgatccccga tcgttcaaac atttggcaat aaagtttctt aagattgaat cctgttgccg
     1621 gtcttqcqat qattatcata taatttctgt tgaattacgt taagcatgta ataattaaca
     1681 tgtaatgcat gacgttattt atgagatggg tttttatgat tagagtcccg caattataca
```

01/14/03 10:48 AM

11

```
1741 tttaatacgc gatagaaaac aaaatatagc gcgcaaacta ggataaatta tcgcgcgcgg
1801 tgtcatctat gttactagat cgggcctcct gtcaatgctg gcggcggctc tggtggtggt
1861 tctggtggcg gctctgaggg tggtggctct gagggtggcg gttctgaggg tggcggctct
1921 gagggaggcg gttccggtgg tggctctggt tccggtgatt ttgattatga aaagatggca
1981 aacgctaata agggggctat gaccgaaaat gccgatgaaa acgcgctaca gtctgacgct
2041 aaaggcaaac ttgattctgt cgctactgat tacggtgctg ctatcgatgg tttcattggt
2101 gacgtttccg gccttgctaa tggtaatggt gctactggtg attttgctgg ctctaattcc
2161 caaatggctc aagtcggtga cggtgataat tcacctttaa tgaataattt ccgtcaatat
2221 ttaccitccc teceteaate ggttgaatgt egecettttg tetttggeee aataegeaaa
2281 ccgcctctcc ccgcgcgttg gccgattcat taatgcagct ggcacgacag gtttcccgac
2341 tggaaagcgg gcagtgagcg caacgcaatt aatgtgagtt agctcactca ttaggcaccc
2401 caggetttae actitatget teeggetegt atgttgtgtg gaattgtgag eggataacaa
2461 tttcacacag gaaacagcta tgaccatgat tacgccaagc ttgcatgcct gcaggtcgac
2521 tctagaggat ccccgggtgg tcagtccctt atgttacgtc ctgtagaaac cccaacccgt
2581 gaaatcaaaa aactcgacgg cctgtgggca ttcagtctgg atcgcgaaaa ctgtggaatt
2641 gatcagcgtt ggtgggaaag cgcgttacaa gaaagccggg caattgctgt gccaggcagt
2701 tttaacgatc agttcgccga tgcagatatt cgtaattatg cgggcaacgt ctggtatcag
2761 cgcgaagtct ttataccgaa aggttgggca ggccagcgta tcgtgctgcg tttcgatgcg
2821 gtcactcatt acggcaaagt gtgggtcaat aatcaggaag tgatggagca tcagggcggc
2881 tatacgccat ttgaagccga tgtcacgccg tatgttattg ccgggaaaag tgtacgtatc
2941 accepttigtg tgaacaacga actgaactgg cagactatcc cgccgggaat ggtgattacc
3001 gacgaaaacg gcaagaaaaa gcagtcttac ttccatgatt tctttaacta tgccggaatc
3061 catcgcagcg taatgctcta caccacgccg aacacctggg tggacgatat caccgtggtg
3121 acgcatgtcg cgcaagactg taaccacgcg tctgttgact ggcaaggtggt ggccaatggt
3181 gatgtcagcg ttgaactgcg tgatgcggat caacaggtgg ttgcaactgg acaaggcact
3241 agcgggactt tgcaagtggt gaatccgcac ctctggcaac cgggtgaagg ttatctctat
3301 gaactgtgcg tcacagccaa aagccagaca gagtgtgata tctacccgct tcgcgtcggc
3361 atccggtcag tggcagtgaa gggccaacag ttcctgatta accacaaacc gttctacttt
3421 actggctttg gtcgtcatga agatgcggac ttacgtggca aaggattcga taacgtgctg
3481 atggtgcacg accacgcatt aatggactgg attggggcca actcctaccg tacctcgcat
3541 taccettacg ctgaagagat getegactgg geagatgaac atggeategt ggtgattgat
3601 gaaactgctg ctgtcggctt taacctctct ttaggcattg gtttcgaagc gggcaacaag
3661 ccgaaagaac tgtacagcga agaggcagtc aacggggaaa ctcagcaagc gcacttacag
3721 gegattaaag agetgatage gegtgacaaa aaccacccaa gegtggtgat gtggagtatt
3781 gccaacgaac cggatacccg tccgcaagtg cacgggaata tttcgccact ggcggaagca
3841 acgcgtaaac tcgacccgac gcgtccgatc acctgcgtca atgtaatgtt ctgcgacgct
3901 cacaccgata ccatcagcga tetetttgat gtgetgtgcc tgaaccgtta ttacggatgg
3961 tatgtccaaa gcggcgattt ggaaacggca gagaaggtac tggaaaaaga acttctggcc
4021 tggcaggaga aactgcatca gccgattatc atcaccgaat acggcgtgga tacgttagcc
4081 gggctgcact caatgtacac cgacatgtgg agtgaagagt atcagtgtgc atggctggat
4141 atgtatcacc gcgtctttga tcgcgtcagc gccgtcgtcg gtgaacaggt atggaatttc
4201 gccgattttg cgacctcgca aggcatattg cgcgttggcg gtaacaagaa agggatcttc
4261 actogogaco goaaacogaa gtoggoggot tttotgotgo aaaaacgotg gactggoatg
4321 aactteggtg aaaaacegea geagggagge aaacaatgaa teaacaacte teetggegea
4381 ccatcgtcgg ctacagcctc gggaattgct accgagctcg aatttccccg atcgttcaaa
4441 catttggcaa taaagtttet taagattgaa teetgttgee ggtettgega tgattateat
4501 ataatttctg ttgaattacg ttaagcatgt aataattaac atgtaatgca tgacgttatt
4561 tatqaqatqq qtttttatqa ttaqaqtccc qcaattatac atttaatacq cgatagaaaa
4621 caaaatatag cgcgcaaact aggataaatt atcgcgcgcg gtgtcatcta tgttactaga
4681 tegggaatte actggeegte gttttacaac gtegtgaetg ggaaaaccet ggegttaeee
4741 aacttaatcg ccttgcagca catccccctt tcgccagctg gcgtaatagc gaagaggccc
4801 gcaccgatcg cccttcccaa cagttgcgca gcctgaatgg cgcccgctcc tttcgctttc
4861 ttcccttcct ttctcqccac qttcqccqqc tttccccqtc aagctctaaa tcqqqqqctc
4921 cctttagggt tccgatttag tgctttacgg cacctcgacc ccaaaaaact tgatttgggt
4981 gatgqttcac gtagtgggcc atcgccctga tagacggttt ttcgcccttt gacgttggag
5041 tecaegttet ttaatagtgg actettgtte caaactggaa caacacteaa ecetateteg
5101 ggctattctt ttgatttata agggattttg ccgatttcgg aaccaccatc aaacaggatt
5161 ttcgcctgct ggggcaaacc agcgtggacc gcttgctgca actctctcag ggccaggcgg
5221 tgaagggcaa tcagctgttg cccgtctcac tggtgaaaag aaaaaccacc ccagtacatt
5281 aaaaacqtcc gcaatgtgtt attaagttgt ctaagcgtca atttgtttac accacaatat
5341 atcctgcca
```

3 of 4 01/14/03 10:48 AM

Revised: July 5, 2002.

Disclaimer | Write to the Help Desk NCBI | NLM | NIH

Jan 7 2003 17:14:06

4 of 4